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In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1-25. (Cancelled)

26. (Currently Amended) A method for stimulating an immune response in a human comprising:

administering by a route selected from the group consisting of inhalation, opthamalic, intranasal, parenteral, oral and intradermal to the human as an immunopotentiator an amount of a phosphorothioate oligonucleotide analog effective to stimulate an a cell-mediated immune response, wherein the phosphorothioate oligonucleotide analog is not antisense.

- 27. (Previously Presented) The method of claim 26, wherein the phosphorothioate oligonucleotide analog is an immunopotentiator of an antibody response.
- 28. (Previously Presented) The method of claim 26, wherein the human has cancer.
- 29. (Previously Presented) The method of claim 26, wherein the human has an infection.
- 30. (Previously Presented) The method of claim 26, wherein the human is having surgery.
- 31. (Previously Presented) The method of claim 26, wherein the phosphorothioate analog is formulated in a vehicle selected from the group consisting of liposomes and cationic lipids.
- 32. (Previously Presented) The method of claim 26, wherein all of the internucleotide linkages of the phosphorothioate oligonucleotide analog are phosphorothioate linkages.

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33. (Previously Presented) The method of claim 26, wherein the phosphorothioate oligonucleotide analog includes at least one 2'-O-alkyl modification.

- 34. (Currently Amended) The method of claim 2633, wherein the 2'-O-alkyl modification is a 2'-O-methyl modification.
- 35. (Currently Amended) The method of claim 2633, wherein the 2'-O-alkyl modification is a 2'-O-propyl modification.
- 36. (Previously Presented) The method of claim 26, further comprising administering a therapeutic modality, before, after or simultaneously with the phosphorothioate oligonucleotide analog.
- 37. (Currently Amended) The method of claim 2636, wherein the therapeutic modality is a drug.
- 38. (Currently Amended) A method for stimulating a systemic or humoral immune response in a human comprising:

administering to the human as an immunopotentiator an amount of a phosphorothioate oligonucleotide analog formulated in a vehicle selected from the group consisting of liposomes and cationic lipids effective to stimulate the systemic or humoral cell-mediated immune response, wherein the phosphorothioate oligonucleotide analog is not antisense.

- 39. (Previously Presented) The method of claim 38, wherein the phosphorothioate oligonucleotide analog is an immunopotentiator of an antibody response.
- 40. (Previously Presented) The method of claim 38, wherein the human has cancer.
- 41. (Previously Presented) The method of claim 38, wherein the human has an infection.

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42. (Previously Presented) The method of claim 38, wherein the human is having surgery.

- 43. (Previously Presented) The method of claim 38, wherein all of the internucleotide linkages of the phosphorothioate oligonucleotide analog are phosphorothioate linkages.
- 44. (Previously Presented) The method of claim 38, wherein the phosphorothioate oligonucleotide analog includes at least one 2'-O-alkyl modification.
- 45. (Amended Herewith) The method of claim 3844, wherein the 2'-O-alkyl modification is a 2'-O-methyl modification.
- 46. (Currently Amended) The method of claim 3844, wherein the 2'-O-alkyl modification is a 2'-O-propyl modification.
- 47. (Previously Presented) The method of claim 38, further comprising administering a therapeutic modality, before, after or simultaneously with the phosphorothioate oligonucleotide analog.
- 48. (Currently Amended) The method of claim 3847, wherein the therapeutic modality is a drug.